Contents of Volume 161

Research Articles

H. de Heij and P.H. Nienhuis (The Netherlands)
Intraspecific variation in isozyme patterns of phenotypically separated populations of *Zostera marina* L. in the south-western Netherlands 1

M. Shpigel, B.J. Barber and R. Mann (Israel, USA)
Effects of elevated temperature on growth, gametogenesis, physiology, and biochemical composition in diploid and triploid Pacific oysters, *Crassostrea gigas* Thunberg 15

A.R. Hough and E. Naylor (UK)
Endogenous rhythms of circatidal swimming activity in the estuarine copepod *Eurytemora affinis* (Poppe) 27

S.C. McKillup and R.V. McKillup (Australia)
Inhibition of feeding in response to crushed conspecifics by the pebble crab *Philyra laevis* (Bell) 33

J. Calvo and I.A. Johnston (UK)
Influence of rearing temperature on the distribution of muscle fibre types in the turbot *Scophthalmus maximus* at metamorphosis 45

M.S. Davies, S.J. Hawkins and H.D. Jones (UK)
Pedal mucus and its influence on the microbial food supply of two intertidal gastropods, *Patella vulgata* L. and *Littorina littorea* (L.) 57

M.R.J. Sheehy (Australia)
Lipofuscin age-pigment accumulation in the brains of ageing field- and laboratory-reared crayfish *Cherax quadricarinatus* (von Martens) (Decapoda:Parastacidae) 79

M.R. Brown and S.W. Jeffrey (Australia)
Biochemical composition of microalgae from the green algal classes Chlorophyceae and Prasinophyceae. 1. Amino acids, sugars and pigments 91

G.A. Dunstan, J.K. Volkman, S.W. Jeffrey and S.M. Barrett (Australia)
Biochemical composition of microalgae from the green algal classes Chlorophyceae and Prasinophyceae. 2. Lipid classes and fatty acids 115

Book Reviews

Antarctic Sector of the Pacific, edited by G.P. Glasby, reviewed by I. Everson 135

Artificial habitats for marine and freshwater Fisheries, edited by W. Seaman Jr. and L.M. Sprague, reviewed by D.G. Lindquist 136

Coastal Dunes, form and process, edited by K.F. Nordstrom, N.P. Psuty and R.W.G. Carter, reviewed by F. van der Meulen 139

Growth and reproductive strategies of phytoplankton, edited by C.D. Sandgren, reviewed by A. Sournia 142

Research Articles

A.J. Underwood (Australia)

Beyond BACI: the detection of environmental impacts on populations in the real, but variable, world 145

F. D'Incao, M.L. Ruffino, K.G. da Silva and A. da Costa Braga (Brazil)
Responses of *Chasmagnathus granulata* Dana (Decapoda : Grapsidae) to salt-marsh environmental variations 179

J.S. Weis and P. Weis (USA)
Transfer of contaminants from CCA-treated lumber to aquatic biota 189

I. Takeuchi and R. Hirano (Japan)
Growth and reproduction of the epifaunal amphipod *Caprella okadai* Arimoto (Crustacea : Amphipoda : Caprellidea) 201

E.K. Stabenau, A.M. Landry Jr. and C.W. Caillouet Jr. (USA)
Swimming performance of captive-reared Kemp's ridley sea turtles *Lepidochelys kempi* (Garman) 213

R.T. Bauer and L.W.R. Vega (USA)
Pattern of reproduction and recruitment in two sicyoniid shrimp species (Decapoda : Penaeoidea) from a tropical seagrass habitat 223

G. Bachelet, C.A. Butman, C.M. Webb, V.R. Starczak and P.V.R. Snelgrove (France, UK, USA)
Non-selective settlement of *Mercenaria mercenaria* (L.) larvae in short-term, still-water, laboratory experiments 241

Book Reviews

Bioaccumulation in aquatic systems: contributions to the assessment, edited by R. Nagel and R. Loskill, reviewed by G.T. Chandler 281

Captive seawater fishes. Science and technology, by S. Spotte, reviewed by R.N. Gibson 282

Marine fish parasitology – an outline, by J. Grabda, reviewed by C. Sommerville 284

Particle Analysis in Oceanography. NATO ASI Series, Series G: Ecological Sciences, Vol. 27, edited by S. Demers, reviewed by G.J. Herndl 286

Author Index of Volume 161 289

Contents of Volume 161 291